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Patent (No,Kind,Date): US 5751304 A 19980512
INK JET RECORDING HAVING TEMPERATURE CONTROL FUNCTION (English)
Patent Assignee: CANON KK (JP)
Author (Inventor): HIRABAYASHI HIROMITSU (JP); OTSUKA NAOJI (JP);
YANO KENTARO (JP); SUGIMOTO HITOSHI (JP); MATSUBARA MIYUKI (JP);
TAKAHASHI KIICHIRO (JP); IWASAKI OSAMU (JP)
Priority (No,Kind,Date): US 471473 A 19950606; JP 91193177 A
19910801; JP 91193187 A 19910801; JP 91194139 A 19910802; JP
91345052 A 19911226; JP 91345060 A 19911226; JP 9216526 A
19920131; US 921832 B3 19920730
Applic (No,Kind,Date): US 471473 A 19950606
National Class: * 347017000; 347014000; 347023000
IPC: * B41J-002/05
Derwent WPI Acc No: * G 93-038505; G 98-232489; G 98-232490; G
98-252652
JAPIO Reference No: * 170316M000048; 170316M000051; 170316M000052;
170576M000067; 170576M000068; 170648M000058
Language of Document: English
Patent (No,Kind,Date): US 6116709 A 20000912
INK JET RECORDING APPARATUS WITH TEMPERATURE CALCULATION BASED ON
RESTORED TEMPERATURE DATA (English)
Patent Assignee: CANON KK (JP)
Author (Inventor): HIRABAYASHI HIROMITSU (JP); OTSUKA NAOJI (JP);
YANO KENTARO (JP); SUGIMOTO HITOSHI (JP); MATSUBARA MIYUKI (JP);
TAKAHASHI KIICHIRO (JP); IWASAKI OSAMU (JP)
Priority (No,Kind,Date): US 468875 A 19950606; JP 91193177 A
19910801; JP 91193187 A 19910801; JP 91194139 A 19910802; JP
91345052 A 19911226; JP 91345060 A 19911226; JP 9216526 A
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Applic (No,Kind,Date): US 468875 A 19950606
National Class: * 347014000; 347017000; 374141000
IPC: * B41J-029/38
Derwent WPI Acc No: * G 93-038505; G 98-232489; G 98-232490; G
98-252652
JAPIO Reference No: * 170316M000048; 170316M000051; 170316M000052;
170576M000067; 170576M000068; 170648M000058
Language of Document: English
Patent (No,Kind,Date): US 6139125 A 20001031
INK JET RECORDING APPARATUS HAVING TEMPERATURE CONTROL FUNCTION
(English)
Patent Assignee: CANON KK (JP)
Author (Inventor): OTSUKA NAOJI (JP); YANO KENTARO (JP); TAKAHASHI
KIICHIRO (JP); IWASAKI OSAMU (JP)
Priority (No,Kind,Date): US 468989 A 19950606; JP 91193177 A
19910801; JP 91193187 A 19910801; JP 91194139 A 19910802; JP
91345052 A 19911226; JP 91345060 A 19911226; JP 9216526 A
19920131; US 921832 B3 19920730
Applic (No,Kind,Date): US 468989 A 19950606
National Class: * 347011000; 347014000; 347017000; 347060000
IPC: * B41J-002/05
Derwent WPI Acc No: * G 93-038505; G 98-232489; G 98-232490; G
98-252652
JAPIO Reference No: * 170316M000048; 170316M000051; 170316M000052;
170576M000067; 170576M000068; 170648M000058
Language of Document: English
Patent (No,Kind,Date): US 6193344 BA 20010227
INK JET RECORDING APPARATUS HAVING TEMPERATURE CONTROL FUNCTION
(English)
Patent Assignee: CANON KK (US)
Author (Inventor): OTSUKA NAOJI (JP); YANO KENTARO (JP); TAKAHASHI

KIICHIRO (JP); IWASAKI OSAMU (JP)
 Priority (No,Kind,Date): US 382955 A 19990825; JP 91193177 A
 19910801; JP 91193187 A 19910801; JP 91194139 A 19910802; JP
 91345052 A 19911226; JP 91345060 A 19911226; JP 9216526 A
 19920131; US 468989 A3 19950606; US 921832 B3 19920730
 Aplic (No,Kind,Date): US 382955 A 19990825
 National Class: * 347011000; 347010000
 IPC: * B41J-002/01; B41J-002/04; B41J-002/045; B41J-002/05
 Derwent WPI Acc No: * G 93-038505; G 98-232489; G 98-232490; G
 98-252652
 JAPIO Reference No: * 170316M000048; 170316M000051; 170316M000052;
 170576M000067; 170576M000068; 170648M000058
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US 5745132	P	19910801	US AA	PRIORITY (PATENT)
			JP 91193177 A	19910801
US 5745132	P	19910801	US AA	PRIORITY (PATENT)
			JP 91193187 A	19910801
US 5745132	P	19910802	US AA	PRIORITY (PATENT)
			JP 91194139 A	19910802
US 5745132	P	19911226	US AA	PRIORITY (PATENT)
			JP 91345052 A	19911226
US 5745132	P	19911226	US AA	PRIORITY (PATENT)
			JP 91345060 A	19911226
US 5745132	P	19920131	US AA	PRIORITY (PATENT)
			JP 9216526 A	19920131
US 5745132	P	19920730	US AA	PRIORITY
			US 921832 B1	19920730
US 5745132	P	19951107	US AA	PRIORITY
			US 553197 B1	19951107
US 5745132	P	19970623	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 880536 A	19970623
US 5745132	P	19980428	US A	PATENT
US 5745132	P	19990706	US CC	CERTIFICATE OF CORRECTION
US 5751304	P	19910801	US AA	PRIORITY (PATENT)
			JP 91193177 A	19910801
US 5751304	P	19910801	US AA	PRIORITY (PATENT)
			JP 91193187 A	19910801
US 5751304	P	19910802	US AA	PRIORITY (PATENT)
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US 5751304	P	19911226	US AA	PRIORITY (PATENT)
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US 5751304	P	19911226	US AA	PRIORITY (PATENT)
			JP 91345060 A	19911226
US 5751304	P	19920131	US AA	PRIORITY (PATENT)
			JP 9216526 A	19920131
US 5751304	P	19920730	US AA	PRIORITY
			US 921832 B3	19920730
US 5751304	P	19950606	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 471473 A	19950606
US 5751304	P	19980512	US A	PATENT
US 5751304	P	19991005	US CC	CERTIFICATE OF CORRECTION
US 6116709	P	19910801	US AA	PRIORITY (PATENT)
			JP 91193177 A	19910801
US 6116709	P	19910801	US AA	PRIORITY (PATENT)
			JP 91193187 A	19910801
US 6116709	P	19910802	US AA	PRIORITY (PATENT)
			JP 91194139 A	19910802

US 6116709	P	19911226	US AA	PRIORITY (PATENT)
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US 6116709	P	19911226	US AA	PRIORITY (PATENT)
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US 6116709	P	19920131	US AA	PRIORITY (PATENT)
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US 6116709	P	19920730	US AA	PRIORITY
		US 921832	B3	19920730
US 6116709	P	19950606	US AE	APPLICATION DATA (PATENT)
		(APPL. DATA (PATENT))		
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US 6116709	P	20000912	US A	PATENT
US 6116709	P	20010619	US CC	CERTIFICATE OF CORRECTION
US 6139125	P	19910801	US AA	PRIORITY (PATENT)
		JP 91193177	A	19910801
US 6139125	P	19910801	US AA	PRIORITY (PATENT)
		JP 91193187	A	19910801
US 6139125	P	19910802	US AA	PRIORITY (PATENT)
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US 6139125	P	19920730	US AA	PRIORITY
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US 6139125	P	19950606	US AE	APPLICATION DATA (PATENT)
		(APPL. DATA (PATENT))		
		US 468989	A	19950606
US 6139125	P	20001031	US A	PATENT
US 6139125	P	20010529	US CC	CERTIFICATE OF CORRECTION
US 6193344	P	19910801	US AA	PRIORITY (PATENT)
		JP 91193177	A	19910801
US 6193344	P	19910801	US AA	PRIORITY (PATENT)
		JP 91193187	A	19910801
US 6193344	P	19910802	US AA	PRIORITY (PATENT)
		JP 91194139	A	19910802
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US 6193344	P	19911226	US AA	PRIORITY (PATENT)
		JP 91345060	A	19911226
US 6193344	P	19920131	US AA	PRIORITY (PATENT)
		JP 9216526	A	19920131
US 6193344	P	19920730	US AA	PRIORITY
		US 921832	B3	19920730
US 6193344	P	19950606	US AA	PRIORITY (DIVISION)
		US 468989	A3	19950606
US 6193344	P	19990825	US AE	APPLICATION DATA (PATENT)
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		US 382955	A	19990825
US 6193344	P	20010227	US BA	PATENT (NO PREVIOUS PRE-GRANT PUBLICATION)
US 6193344	P	20011113	US CC	CERTIFICATE OF CORRECTION

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